

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for forming at least one ring with an undercut or overhang on a ~~lead~~ battery terminal, the apparatus comprising:
 - a fixture configured to securely position the battery terminal;
 - a rolling station including a cold metal forming member configured to transform at least one ring on the battery terminal from having a first shape into a second different shape with an undercut or overhang when the battery terminal and cold metal forming member are rotated relative to each other, wherein the first shape of the ring includes a inner portion having a first width being at least as wide as a second width of the outer portion of the ring; and
 - a drive assembly configured to rotate the battery terminal and cold metal forming member relative to each other.
2. (Original) The apparatus of Claim 1, wherein the first shape of the at least one ring is a rectangle in cross-section.
3. (Original) The apparatus of Claim 1, wherein the second shape of the at least one ring is an arrowhead in cross-section.
4. (Original) The apparatus of Claim 1, wherein the at least one ring is a pair of rings.
5. (Original) The apparatus of Claim 1, wherein the cold metal forming member includes at least one roller.
6. (Original) The apparatus of Claim 5, wherein the at least roller is a cam including an outer circumference having a burnishing portion.

7. (Original) The apparatus of Claim 5, wherein the at least roller is a cam including an outer circumference having a shaping portion with at least one valley including a pair of sidewalls set at an angle of between about 90° to about 120° relative to each other.

8. (Original) The apparatus of Claim 5, wherein the at least one roller comprises a plurality of rollers spaced equally about an outer surface of the battery terminal.

9. (Original) The apparatus of Claim 8, wherein each of the plurality of rollers includes an outer circumference having a straight portion.

10. (Currently Amended) A method for forming at least one ring with an undercut or overhang on a lead battery terminal, the method comprising:

securing the battery terminal within a fixture; and
engaging a cold metal forming member with an outer surface of the lead battery terminal while the cold metal forming member and the battery terminal are rotating relative to each other;

transforming at least one ring on the lead battery terminal from having a first shape into a second different shape with an undercut or overhang, wherein the first shape of the ring includes a inner portion having a first width being at least as wide as a second width of the outer portion of the ring.

11. (Original) The method of Claim 10, wherein the engaging step includes contacting the outer surface of the battery terminal with at least one roller.

12. (Original) The method of Claim 11, wherein the engaging step includes contacting the outer surface of the battery terminal with a plurality of rollers positioned at equally spaced locations around the outer surface of the battery terminal.

13. (Original) The method of Claim 12, wherein the plurality of rollers are configured to revolve about the battery terminal at a first rate of speed while each roller is configured to rotate about its own axis at a second rate of speed.

14. (Original) The method of Claim 13, wherein the transformation step is accomplished by a single rotation of each of the plurality of rollers about its own axis.

15. (Original) The method of Claim 13, wherein the first speed is higher than the second rate of speed.

16. (Original) The method of Claim 15, wherein the first rate of speed is between about 500 to about 600 RPM while the second rate of speed is between about 20 to about 30 RPM.

17. (Original) The method of Claim 10, wherein the transforming step is accomplished without substantially removing any material from the at least one ring.

18. (Currently Amended) The method of Claim 10, further including the step of cold pressing the battery terminal from a lead slug into a semi-finished shape including the annular rings having the first cross-sectional shape prior to the engaging step.

19. (Original) The method of Claim 10, wherein the first cross-sectional shape is a rectangle.

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (New) A method for forming a channel on a battery terminal comprising: securing a battery terminal including a channel having a base and an opening, the opening having a width at least as wide as the width of the channel; and engaging a cold metal forming member with an outer surface of the battery terminal while the cold metal forming member and the battery terminal are rotating relative to each other;

moving material adjacent to the channel to partially close the opening of the channel such that the opening of the channel has a new width less than a width of a portion of the channel.